```
0
```

```
<110> Shi et al.
  <120> TM4SF Receptor Polynucleotides, Polypeptides, and Antibodies
  <130> PT056P1
  <140> Unassigned
  <141> 2001-10-10
  <150> PCT/US01/11130
  <151> 2001-04-05
  <150> 60/195,336
  <151> 2000-04-10
  <160> 8
  <170> PatentIn Ver. 2.0
(210> 1
(211> 733
<212> DNA
<213> Homo sapiens
  <400> 1
gggatccgga gcccaaatct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg
aattogaggg tgcaccgtca gtcttcctct tccccccaaa acccaaggac accctcatga
                                                                         120
* teteceggae teetgaggte acatgegtgg tggtggaegt aagceacgaa gaccetgagg
                                                                         180
tcaaqttcaa ctqqtacqtq qacqqcqtqq aqqtqcataa tqccaaqaca aaqccqcqqq
                                                                         240
aggaggagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact
                                                                         300
gqctqaatqq caaqqaqtac aaqtqcaaqq tctccaacaa aqccctccca acccccatcq
                                                                         360
m agaaaaccat ctccaaagcc aaaqgqcaqc cccqaqaacc acaqqtqtac accctqcccc
                                                                        420
catcocggga tgagotgaco aagaaccagg tcagoctgac ctgcctggto aaaggottet
                                                                        480
atccaagcga categeogtg gagtgggaga geaatgggca geeggagaac aactacaaga
                                                                        540
  ccacqcctcc cqtqctqqac tccqacqqct ccttcttcct ctacaqcaaq ctcaccqtqq
                                                                         600
  acaaqaqcaq qtqqcaqcaq qqqaacqtct tctcatqctc cqtqatqcat qaqqctctqc
                                                                         660
  acaaccacta cacqcaqaaq aqcctctccc tqtctccqqq taaatqaqtq cqacqqccqc
                                                                         720
  gactctagag gat
                                                                         733
  <210> 2
  <211> 2538
  <212> DNA
  <213> Homo sapiens
  <400> 2
  ccacqcqtcc qqccqcaqcc qccqqqctaq qccccqqqcq qctctaqccc aqqqcqqccc
  gtggagggc gatcccqcc ccqqctccqq ttcccqqcc qqcqqqcqqc tqctcaccat
                                                                         120
  gccgggcaag caccagcact tccaggaacc cgaggtcggc tgctgcggga aatacttcct
                                                                         180
  gtttggcttc aacattgttt tctgggtgct gggagccctg ttcctggcca tcggcctctg
                                                                         240
  ggcctggggt gagaagggtg ttctctccaa catctctqcq ctqaccqatc tqqqaqqcct
  cgaccctgtg tgqctgtttg tagtggttgg aggcgtcatg tccgtgctgg gctttgccgg
  ctgcatcggg gctctccggg agaacacttt cctgctcaag tttttctcag tgttccttgg
                                                                        420
  cotcatotto ttootggago tggcaacagg gatottggco ttogtattca aggactggat
                                                                        480
  togagaccag ctcaatttct tcattaacaa caacgtcaag gcctatcggg atgacattga
  cctccagaac ctcattqact ttqctcaqqa atattqqtct tqctqcqqaq cccqaqqqcc
  taatgactgg aacctcaata tctatttcaa ctgcactgac ttgaacccga gccgagagcg
                                                                        660
  ctgcggggtg cccttctcct gctgtgtcag ggaccctgcg atgtcctcaa cacccagtgt
                                                                        720
  ggctatgatg teeggeteaa aetggagetg gaqeaqeaqq qetecataea caccaaaqqe
                                                                        780
```

```
gtgggcatcg ctctcctcca gatctttggt atctgcctgg cccagaacct tgtgagtgac
  atcaaggcag tgaaggccaa ctggatcaaa catgatqatq qctacaaact actcaaataa
                                                                        960
  acaaaacctt gaaaaccact ggcttacgcc caccatctca gaggttccat gggccqcaqq
                                                                       1020
  quoticaqueq tqueqtetque etqqqqcccc aquecaqaec caccetqca acatqtttte
                                                                       1080
  ttggcctggg tagtacatac gatgagccaa cctttaaaac ttggcatatt tcatgtaaaa
                                                                       1140
  gtccagatcc ccagcatctt gtgaagaatg gccatccggc cacagcqgct cttctatqqc
                                                                       1200
  ttegteteet gggatgtgeg etteetgtte tetgagggae eeaceeteae eegtgteetg
                                                                       1260
  cotgootgac cotggaggot gggagetggc otcotocacc totgcaagtt tttcccctgc
                                                                       1320
  aaatgctgca aggctgctgt gggccaagcc cggatcgaag cctggagcgt gaagaattgg
                                                                       1380
  ggaggctgga geetgeeeca aagaggeeac ageetgggaa gggtetggee eteetggggg
                                                                       1440
  ccaagatggg tgccaccgtg cccaggagag tggccggagg gtgggatgga gatcaggaag
                                                                       1500
  gttttgggca ggacgtagct ggaagcctga gcttgtcacc catggggatg gggagagccc
                                                                       1560
  tgtttgaggg cggctgatgg taggactcag cctctgttgg aactcagttc aaaatcttcc
                                                                       1620
  cagtggcctg tagagttgcc tcctgaccac tagagggcgc gcccacacag cattacctgg
                                                                       1680
  gtotgccttt cotaggacaa coccacccag tacagccctg tgcctggtgt gtccaccctg
                                                                       1740
  cttactagtt ctttqqqttt catqqaattt acaaqcttct aaaqqaqcaq aqtqqctcaq
                                                                       1800
  attggggaag cotggcagot gttotcagat otgcacaaag oggtgtgtgt ggagtatttg
                                                                       1860
  tgaatcaaag gagaggtttg gcctagtgcc cagtctttta acttagatgc cetcagggcc
                                                                       1920
  gggtgggtta taaaaataaa gtaggccttt gagctgtgag gcctttggga ctttaatttt
                                                                       1980
tcccactatt cctggagatg ggacatagag agacattgct ttgtgctgag aaatacttgc
                                                                       2040
i atgattgagt ctgagtcgct aagggcaact ggccttgagt gacatcaagg ggtggtgggg
                                                                       2100
d actgtggcaa accacagatt cccacctgaa attggtggct gtccttccgt tggggctaat
                                                                       2160
🖅 ggctgtacag cgagaatgta ggtaggtctg tctaatggga qaaqtctqqa qaaqccaaqa
                                                                       2220
agctagattt ttcatgtgaa ctatcccgag ttttaagttg tttgcagcta atgagaaaaa
                                                                       2280
cotottaaac cotgatagto aaaaggtgtg ggggccatot ttgacacoto coccaccata
                                                                       2340
ggtccctcag ggacagtgcc ccatgggagc cctggtgagt ccacggttca ggaatgctgg
  gaactgctgc aggtgggcgg gttgtgggcc agcacccatc gtggctccca qqtqtqqqct
                                                                       2460
 qqqctqqqct atqqqtqqqc tctacatqct acaataaatq qqqctcatqa taaaaaaaaa
                                                                       2520
  aaaaaaaaa aaaaaaaa
                                                                       2538
± <210> 3
(211> 1653
(212> DNA
<213> Homo sapiens
  <400> 3
  ccacgcgtcc gttttctaat aatttttagc tcctagtatt ataqcaaaca gatattacca
                                                                          60
  tagtctattt attcaaattc atattagttg tttttaactt tcttttttc ttggttgcag
                                                                        120
  ttttccttct tctacatcct tgattatttc cttaggtcca gtttttataa gtgcaattac
                                                                        180
  atggtcaaag ggagtaagaa ctttttgttg gcttttgata ttactaaatt gatcttcaca
                                                                         240
  aaggattcac cagtcaaagc tottacttgt gatgtgcaat gtgtttgtot tactgtatga
                                                                         300
  tototactoc taggoattgt tacaaaacaa gtoagaaacc aacaaataca agootgtoat
                                                                         360
  atttttcqat tttqaaqatq qaaattatet tttcttctac aattttctga tttctcactt
                                                                        420
  tttacattaa ccttcgttga taaaccttct ttatgcttct ttattatagg aaattatagg
                                                                        480
  agatttattc agtttcttca tggctgtgct tagcggctct aggtagatcg gtataatcat
                                                                        540
  aaaaatgaaa tagctactta aaattggcca ttagtgcaac gtagcaggca ttatgctggg
                                                                        600
  tgctttacaa aatatagctc atttaatccc cgcacaaatt ctggaggtag gaaatattat
                                                                         660
  totcatttta ctgagaaagt attgtaaggc accatttatt attcaccttt gtgtttgtgg
                                                                        720
  agtttggcca agtacctggc acattcacac aaattggttt gttaaatgaa cattagagaa
                                                                        780
  atattttatt tgttaactta tttcatgttt tagaatcttc tccagataga ctatgatagc
                                                                         840
  agatatagca gagttaatat ggtaccagta tgttgacctt cactettatt tattgaagga
                                                                         900
  aacacacaag tccaaactag aacagggtga ttttattatg tgtgagggaa tggaatgcac
                                                                        960
  cccaagtggc taaccagcaa tccctaaaat tgaatttttg ttctgttggg tgtcctctga
                                                                       1020
  gctcagtgct atggttacac aatacccaag attataaaaa ctgaaaaatg ttgtcagtgt
                                                                       1080
  ccaaacaacc aattcaaatq aatqatatcc aaatatcata taqacattaa cctctttatq
                                                                       1140
```

tgtgtggggcc agtttgagaa gtggctgcag gacaacctga tcgtggtggc tggggtcttt

840

900

1200

1260

1320

1380

attttacagt ttctttgttt gtgatagtat ccagattgcc tcagaaatag aggtcttaca

aaaattgaac agcattttca gatcgaattt totgattttt gcactttget gettggttee

aaataaaaat agaacagaat gaagtggatc aaaagccaaa tcaaaaatat tttttccttt

gtgattaatt aattagtatc tacaaagcat tgaaatgaga gatgctagta aatggtatat

atgttattat tgctttggct ttgtcagttt tatgaccttt ctttggcttt cagatttatt tottacagtg tattcagaat tatgtgaatt aggattotot ttaatgtaga atgcaatttt aattattggc ttaatagctt aaaatgaaca gtcttaaaca gtcttgcaaa ttctttgtct tggaagetgg gaactgttca atetetggaa cagtggteat aggatagtet cattaateat ttaagccggc aaaaaaagaa aaaaaaaaaa aaa <210> 4 <211> 233 <212> PRT <213> Homo sapiens <400> 4 Met Pro Gly Lys His Gln His Phe Gln Glu Pro Glu Val Gly Cys Cys Gly Lys Tyr Phe Leu Phe Gly Phe Asn Ile Val Phe Trp Val Leu Gly Ala Leu Phe Leu Ala Ile Gly Leu Trp Ala Trp Gly Glu Lys Gly Val Leu Ser Asn Ile Ser Ala Leu Thr Asp Leu Gly Gly Leu Asp Pro Val Trp Leu Phe Val Val Val Gly Gly Val Met Ser Val Leu Gly Phe Ala Gly Cys Ile Gly Ala Leu Arg Glu Asn Thr Phe Leu Leu Lys Phe Phe Ser Val Phe Leu Gly Leu Ile Phe Phe Leu Glu Leu Ala Thr Gly Ile Leu Ala Phe Val Phe Lys Asp Trp Ile Arg Asp Gln Leu Asn Phe Phe Ile Asn Asn Asn Val Lys Ala Tyr Arg Asp Asp Ile Asp Leu Gln Asn Leu Ile Asp Phe Ala Gln Glu Tyr Trp Ser Cys Cys Gly Ala Arg Gly Pro Asn Asp Trp Asn Leu Asn Ile Tyr Phe Asn Cys Thr Asp Leu Asn Pro Ser Arg Glu Arg Cys Gly Val Pro Phe Ser Cys Cys Val Arg Asp Pro Ala Met Ser Ser Thr Pro Ser Val Ala Met Met Ser Gly Ser Asn 200 Trp Ser Trp Ser Ser Arg Ala Pro Tyr Thr Pro Lys Ala Val Trp Ala Ser Leu Arg Ser Gly Cys Arg Thr Thr

1500

1620

1653

<210> 5 <211> 44 230

225

```
<212> PRT
   <213> Homo sapiens
   <400> 5
   Met Arg Asp Ala Ser Lys Trp Tyr Ile Cys Tyr Tyr Cys Phe Gly Phe
                                        10
   Val Ser Phe Met Thr Phe Leu Trp Leu Ser Asp Leu Phe Leu Thr Val
               20
                                    25
   Tyr Ser Glu Leu Cys Glu Leu Gly Phe Ser Leu Met
            35
                               40
  <210> 6
  <211> 18
  <212> PRT
  <213> Homo sapiens
  <400> 6
Phe Gly Phe Asn Ile Val Phe Trp Val Leu Gly Ala Leu Phe Leu Ala
  1
                                       10
  Ile Gly
V <210> 7
<211> 17
* <212> PRT
4 <213 > Homo sapiens
  <400> 7
  Val Trp Leu Phe Val Val Val Gly Gly Val Met Ser Val Leu Gly Phe
                  5
                                      10
Ma Ala
  <210> 8
  <211> 20
  <212> PRT
  <213> Homo sapiens
  <400> 8
  Lys Phe Phe Ser Val Phe Leu Gly Leu Ile Phe Phe Leu Glu Leu Ala
                    5
  Thr Gly Ile Leu
               20
```

IU Ď